

Biostat_projet

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```
mort <- read.csv("mortDK.csv", header = TRUE, sep = ";")
mort <- mort %>% rename("taux.deces" = rt,
                        "Infections" = r1,
                        "Cancer" = r2,
                        "Tumeurs.Bénignes" = r3,
                        "Endocrine" = r4,
                        "Maladies.Sang" = r5,
                        "Systeme.Nerveux" = r6,
                        "Cerebrovasculaire" = r7,
                        "Cardiaque" = r8,
                        "Maladies.Respiratoires" = r9,
                        "Maladies.Foie" = r10,
                        "Maladies.Digestives" = r11,
                        "Maladie.Génito-urinaire" = r12,
                        "Non.Définis" = r13,
                        "Mort.Naturelle" = r14,
                        "Mort.Violente" = r15) %>%
  select(-i..)
mort$sex <- mort$sex %>% factor( labels = c("H", "F"))
summary(mort)
```

##	age	periode	sex	PA	nb.deces
##	Min. : 0	Min. :43.0	H:910	Min. : 2750	Min. : 13.0
##	1st Qu.:22	1st Qu.:53.0	F:910	1st Qu.: 89820	1st Qu.: 155.0
##	Median :45	Median :65.5		Median :140311	Median : 545.5
##	Mean :45	Mean :65.5		Mean :126108	Mean : 1288.2
##	3rd Qu.:68	3rd Qu.:78.0		3rd Qu.:161190	3rd Qu.: 2216.2
##	Max. :90	Max. :88.0		Max. :224654	Max. :16143.0
##	taux.deces	Infections	Cancer	Tumeurs.Bénignes	
##	Min. : 0.1250	Min. :0.0000	Min. : 0.010	Min. :0.0000	
##	1st Qu.: 0.9602	1st Qu.:0.0160	1st Qu.: 0.114	1st Qu.:0.0080	
##	Median : 3.7620	Median :0.0855	Median : 1.089	Median :0.0345	
##	Mean : 31.5585	Mean :0.2249	Mean : 5.303	Mean :0.1886	
##	3rd Qu.: 29.2005	3rd Qu.:0.3080	3rd Qu.: 8.064	3rd Qu.:0.2032	
##	Max. :386.0400	Max. :3.4940	Max. :34.902	Max. :2.8850	
##	Endocrine	Maladies.Sang	Systeme.Nerveux	Cerebrovasculaire	
##	Min. :0.0000	Min. :0.000	Min. : 0.000	Min. : 0.000	
##	1st Qu.:0.0140	1st Qu.:0.000	1st Qu.: 0.037	1st Qu.: 0.011	
##	Median :0.0710	Median :0.012	Median : 0.113	Median : 0.118	
##	Mean :0.3615	Mean :0.101	Mean : 1.143	Mean : 3.866	

```
## 3rd Qu.:0.4665 3rd Qu.:0.065 3rd Qu.: 0.411 3rd Qu.: 2.533
## Max. :3.6330 Max. :2.299 Max. :118.890 Max. :52.136
## Cardiaque Maladies.Respiratpires Maladies.Foie Maladies.Digestives
## Min. : 0.0000 Min. : 0.0000 Min. :0.0000 Min. :0.0000
## 1st Qu.: 0.0340 1st Qu.: 0.0220 1st Qu.:0.0060 1st Qu.:0.0130
## Median : 0.5305 Median : 0.1165 Median :0.1100 Median :0.0865
## Mean : 13.2173 Mean : 2.4315 Mean :0.4175 Mean :0.6074
## 3rd Qu.: 10.7007 3rd Qu.: 1.5092 3rd Qu.:0.5677 3rd Qu.:0.6130
## Max. :164.3500 Max. :42.0310 Max. :4.6050 Max. :7.5020
## Maladie.Génito-urinaire Non.Definis Mort.Naturelle Mort.Violente
## Min. : 0.0000 Min. : 0.0000 Min. : 0.0000 Min. : 0.0220
## 1st Qu.: 0.0130 1st Qu.: 0.0100 1st Qu.: 0.0290 1st Qu.: 0.3018
## Median : 0.0860 Median : 0.0660 Median : 0.0625 Median : 0.7060
## Mean : 1.0289 Mean : 0.8154 Mean : 0.3209 Mean : 1.5314
## 3rd Qu.: 0.6138 3rd Qu.: 0.5503 3rd Qu.: 0.1735 3rd Qu.: 1.2528
## Max. :23.9850 Max. :27.2030 Max. :50.2120 Max. :23.4940
```

```
head(mort)
```

```
## age periode sex PA nb.deces taux.deces Infections Cancer Tumeurs.Bénignes
## 1 0 43 H 224654 12072 53.736 3.494 0.098 0.085
## 2 0 43 F 212730 8688 40.841 2.994 0.061 0.056
## 3 0 48 H 202692 7035 34.708 1.692 0.074 0.039
## 4 0 48 F 192602 5001 25.965 1.516 0.078 0.067
## 5 0 53 H 193164 5797 30.011 0.601 0.119 0.036
## 6 0 53 F 182400 3991 21.880 0.450 0.088 0.044
## Endocrine Maladies.Sang Systeme.Nerveux Cerebrovasculaire Cardiaque
## 1 0.347 0.089 1.282 0.013 0.036
## 2 0.259 0.127 1.011 0.009 0.033
## 3 0.222 0.074 0.834 0.015 0.049
## 4 0.119 0.036 0.597 0.021 0.026
## 5 0.140 0.026 0.766 0.047 0.047
## 6 0.088 0.016 0.488 0.000 0.055
## Maladies.Respiratpires Maladies.Foie Maladies.Digestives
## 1 10.826 0.027 5.092
## 2 8.739 0.038 3.685
## 3 6.276 0.054 1.919
## 4 4.875 0.042 1.231
## 5 3.018 0.031 1.066
## 6 2.489 0.033 0.691
## Maladie.Génito-urinaire Non.Definis Mort.Naturelle Mort.Violente
## 1 0.125 1.340 29.962 0.921
## 2 0.132 1.020 21.976 0.700
## 3 0.049 0.745 21.718 0.947
## 4 0.062 0.633 15.919 0.742
## 5 0.031 0.564 22.810 0.709
## 6 0.027 0.378 16.541 0.493
```